Write a python program to find the difference between sum of square and square of sum N numbers

Sample input: N=5

Sample output: Diff=170

CODE:

def sum\_of\_squares(N):

return sum(i\*\*2 for i in range(1, N + 1))

def square\_of\_sum(N):

return sum(range(1, N + 1))\*\*2

# Taking input from the user

N = int(input("Enter the value of N: "))

# Calculating the difference and displaying the result

result = sum\_of\_squares(N) - square\_of\_sum(N)

print(f"Difference between sum of squares and square of sum for the first {N} natural numbers is: {result}")

OUTPUT:

Enter the value of N: 5

Difference between sum of squares and square of sum for the first 5 natural numbers is: -170

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